

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P580810

Luminaire Tested: **HVSL8-8-LD4-1HI-50-UNV-O-EDD**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580810  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-135-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/16/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: HVSL8-8-LD4-1HI-50-UNV-O-EDD  
Description: 8 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

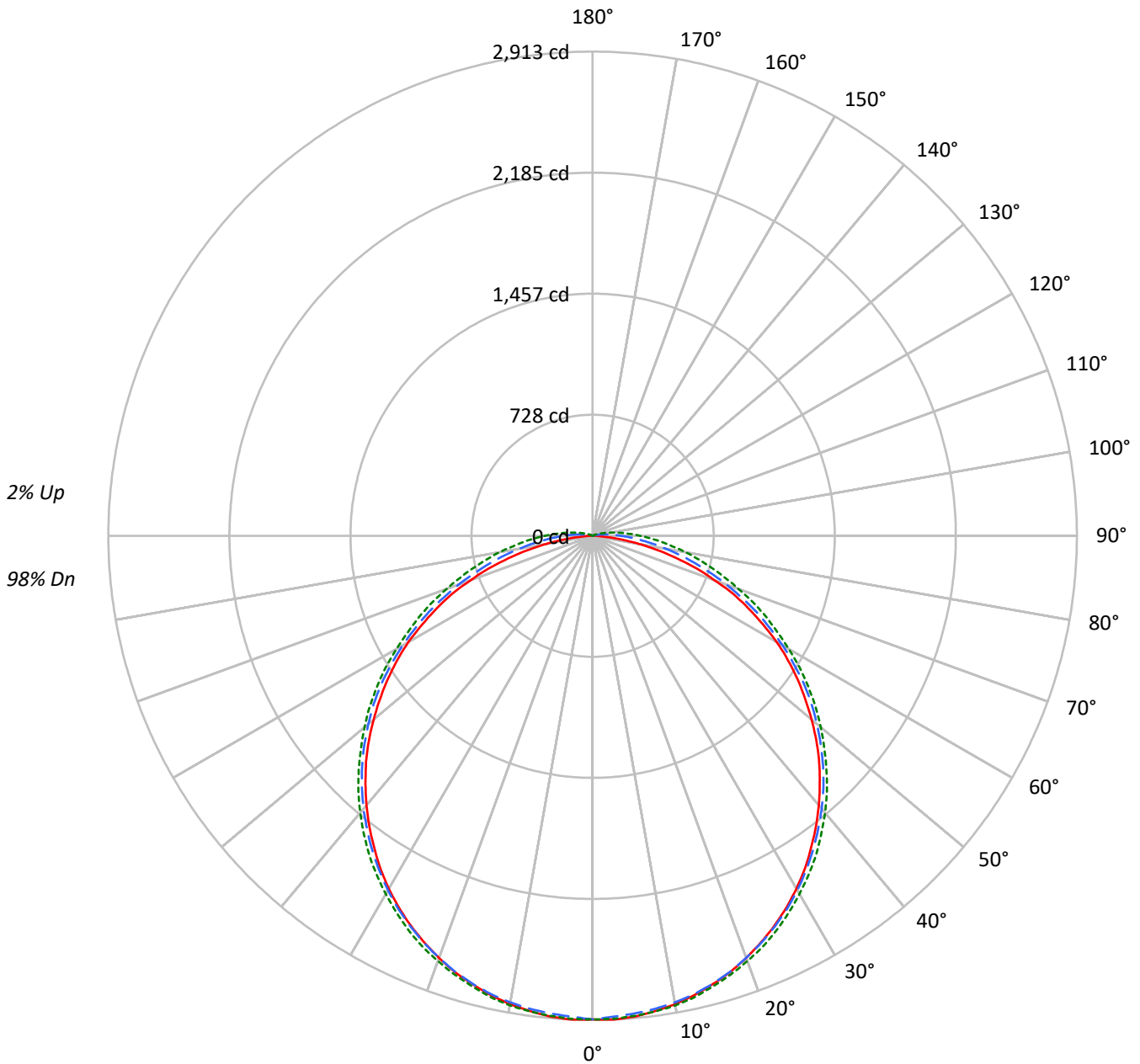
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8798.0 lumens  
Efficiency: N/A  
Efficacy: 99.3 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 8' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 88.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101				98																
1	108	102	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83				81																
2	98	89	82	76	95	87	80	75	83	77	73	79	75	71	76	72	69				67																
3	89	78	69	63	86	76	68	62	73	66	61	70	64	59	67	62	58				56																
4	81	69	60	53	79	67	59	52	65	57	52	62	56	51	60	54	50				47																
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	43				41																
6	69	55	46	40	67	54	46	39	52	45	39	50	44	38	49	43	38				36																
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	34				32																
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	41	35	30				28																
9	55	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27				25																
10	52	39	31	25	51	38	30	25	37	30	25	36	29	25	35	29	25				23																

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5873	5873	5873
5°	5872	5749	5747
10°	5843	5653	5632
15°	5804	5546	5494
20°	5761	5425	5360
25°	5708	5301	5223
30°	5645	5168	5068
35°	5564	5021	4914
40°	5480	4866	4735
45°	5389	4696	4542
50°	5269	4500	4334
55°	5140	4283	4105
60°	4987	4000	3837
65°	4725	3683	3572
70°	4342	3307	3263
75°	3787	2895	2983
80°	2937	2491	2727
85°	1693	2087	2482



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	275.4	3.1
10°-20°	789.9	9.0
20°-30°	1198.5	13.6
30°-40°	1449.2	16.5
40°-50°	1512.1	17.2
50°-60°	1382.5	15.7
60°-70°	1077.7	12.2
70°-80°	674.2	7.7
80°-90°	306.2	3.5
90°-100°	102.6	1.2
100°-110°	25.8	0.3
110°-120°	4.1	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2263.7	25.7
0°-40°	3712.9	42.2
0°-60°	6607.5	75.1
0°-90°	8665.5	98.5
90°-120°	132.5	1.5
90°-150°	132.5	1.5
90°-180°	132.0	1.5
0°-180°	8798.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2910	2910	2910	2910	2910	
5°	2904	2898	2885	2899	2899	276
15°	2793	2798	2790	2806	2806	788
25°	2588	2590	2593	2615	2619	1193
35°	2291	2301	2311	2334	2344	1434
45°	1928	1945	1960	1980	1989	1485
55°	1504	1522	1550	1573	1583	1344
65°	1034	1052	1088	1131	1149	1023
75°	523	556	637	713	740	558
85°	90	167	287	380	414	115
90°	1	62	169	254	285	4
95°	1	16	88	159	184	1
105°	1	2	14	42	57	1
115°	2	2	3	8	11	1
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P580810

CATALOG NUMBER: HVSL8-8-LD4-1HI-50-UNV-O-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2909.8	2909.8	2909.8	2909.8	2909.8
2.5°	2913.3	2909.2	2896.1	2909.2	2908.5
5°	2903.7	2898.2	2885.2	2898.9	2898.9
7.5°	2884.5	2882.4	2870.7	2886.5	2886.5
10°	2861.8	2861.1	2851.5	2868.7	2869.4
12.5°	2830.3	2833.0	2824.1	2840.6	2842.6
15°	2793.2	2798.0	2790.5	2806.3	2805.6
17.5°	2752.8	2755.5	2750.0	2767.9	2767.2
20°	2702.7	2706.1	2702.0	2720.5	2722.6
22.5°	2647.1	2651.9	2651.2	2670.4	2675.9
25°	2588.1	2590.2	2592.9	2614.9	2619.0
27.5°	2523.0	2526.4	2531.2	2551.1	2555.2
30°	2451.6	2457.1	2462.6	2483.2	2488.7
32.5°	2376.2	2381.7	2388.5	2415.3	2418.0
35°	2291.1	2301.4	2311.0	2334.3	2343.9
37.5°	2206.1	2219.1	2228.0	2252.7	2260.2
40°	2116.2	2129.2	2143.6	2169.7	2174.5
42.5°	2022.2	2037.3	2054.5	2077.8	2086.0
45°	1927.6	1944.7	1960.5	1979.7	1989.3
47.5°	1825.3	1842.5	1861.7	1883.6	1889.8
50°	1719.7	1739.6	1760.2	1780.8	1791.7
52.5°	1611.3	1635.3	1658.7	1680.6	1690.9
55°	1504.3	1522.1	1550.3	1572.9	1583.2
57.5°	1393.2	1408.3	1433.7	1470.7	1476.2
60°	1280.0	1293.7	1319.8	1350.0	1362.3
62.5°	1155.2	1173.7	1201.1	1239.5	1250.5
65°	1033.7	1051.6	1087.9	1131.1	1149.0
67.5°	916.4	922.6	969.3	1014.5	1043.3
70°	777.9	801.2	855.4	911.0	932.9
72.5°	658.5	681.8	741.5	806.7	834.1
75°	523.4	555.6	636.6	712.7	739.5
77.5°	404.7	440.4	540.5	617.4	648.2
80°	282.6	338.2	447.2	533.7	567.3
82.5°	177.7	246.3	362.9	453.4	482.9
85°	90.5	167.4	287.4	380.0	413.6
87.5°	24.0	108.4	223.6	312.1	346.4
90°	0.7	62.4	169.4	254.5	285.4
92.5°	0.7	35.0	126.2	202.4	233.9
95°	0.7	16.5	87.8	159.1	183.8
97.5°	0.7	6.9	60.4	120.0	144.7
100°	0.7	3.4	38.4	87.1	108.4
102.5°	1.4	2.1	24.0	62.4	79.6
105°	1.4	2.1	14.4	42.5	56.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.1	2.1	2.7	11.7	17.1
115°	2.1	2.1	2.7	7.5	11.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°    - - 45°-225°    - - - - 90°-270°







107.5°	1.4	2.1	8.2	28.8	39.1
110°	2.1	2.1	4.8	17.8	26.1



(END OF REPORT)